



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁷ :

C07K 7/56, A61K 38/12, A61P 31/00

A1

(11) International Publication Number:

WO 00/64927

(43) International Publication Date:

2 November 2000 (02.11.00)

(21) International Application Number: PCT/JP00/02710

(22) International Filing Date: 25 April 2000 (25.04.00)

(30) Priority Data:

PP 9997

27 April 1999 (27.04.99)

AU

(71) Applicant (for all designated States except US): FUJISAWA PHARMACEUTICAL CO., LTD. [JP/JP]; 4-7, Doshomachi 3-chome, Chuo-ku, Osaka-shi, Osaka 541-8514 (JP).

(72) Inventors; and

(75) Inventors/Applicants (for US only): TOJO, Takashi [JP/JP]; 1-5-1-606, Higashiimazato, Higashinari-ku, Osaka-shi, Osaka 537-0011 (JP). OHKI, Hidenori [JP/JP]; 3-1-28-705, Yamamotominami, Takarazuka-shi, Hyogo 665-0882 (JP). SHIRAISHI, Nobuyuki [JP/JP]; 4-20-607, Kumano-cho, Nishinomiya-shi, Hyogo 663-8103 (JP). MATSUYA, Takahiro [JP/JP]; 2-2-10-A110, Midorigaoka, Ikeda-shi, Osaka 563-0026 (JP). MATSUDA, Hiroshi [JP/JP]; 51-202, Shimotsubayashikusunoki-cho, Nishikyo-ku, Kyoto-shi, Kyoto 615-8065 (JP). MURANO, Kenji [JP/JP]; 4-15-4, Nagayoshinagahara, Hirano-ku, Osaka-shi, Osaka 547-0016 (JP). BARRETT, David [GB/JP]; 42-3-222, Nishisasaboko-cho, Nara-shi, Nara 630-8291

(JP). OGINO, Takashi [JP/JP]; 41-34, Hieda-cho, Yamatokooriyama-shi, Nara 639-1108 (JP). MATSUDA, Keiji [JP/JP]; 3-14-18, Kosobe-cho, Takatsuki-shi, Osaka 569-1115 (JP). ICHIHARA, Masaharu [JP/JP]; 1-1-24, Nishishoji, Mino-shi, Osaka 562-0003 (JP). HASHIMOTO, Norio [JP/JP]; 3-2-3-207, Shirakawa, Ibaraki-shi, Osaka 567-0832 (JP). KANDA, Atsushi [JP/JP]; 4-20-313, Kumano-cho, Nishinomiya-shi, Hyogo 663-8103 (JP). OHGASHI, Atsushi [JP/JP]; 2-1-231, Higashiyamadai, Nishinomiya-shi, Hyogo 669-1133 (JP).

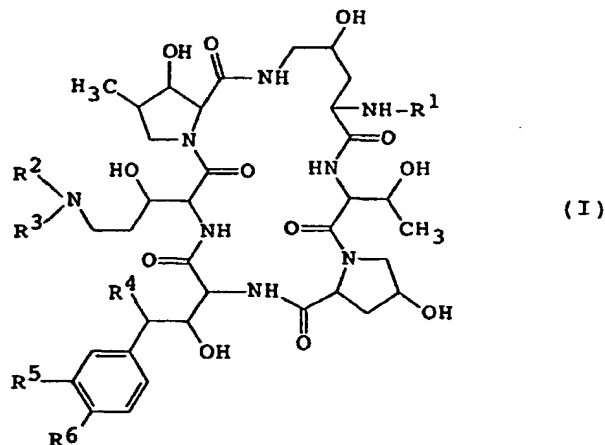
(74) Agent: TABUSHI, Eiji; Fujisawa Pharmaceutical Co., Ltd., Osaka Factory, 1-6, Kashima 2-chome, Yodogawa-ku, Osaka-shi, Osaka 532-8514 (JP).

(81) Designated States: JP, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

Published

With international search report.

(54) Title: CYCLIC HEXAPEPTIDES HAVING ANTIBIOTIC ACTIVITY



(57) Abstract

This invention relates to new polypeptide compound represented by general formula (I), wherein R¹, R², R³, R⁴, R⁵ and R⁶ are as defined in the description or a salt thereof which has antimicrobial activities (especially, antifungal activities), inhibitory activity on β -1,3-glucan synthase, to process for preparation thereof, to a pharmaceutical composition comprising the same, and to a method for prophylactic and/or therapeutic treatment of infectious diseases including Pneumocystis carinii infection (e.g. Pneumocystis carinii pneumonia) in a human being or an animal.